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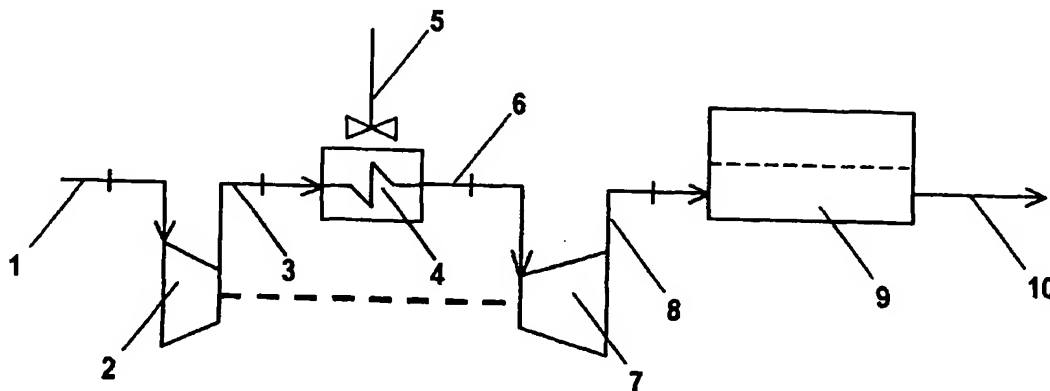
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(54) Title: METHOD FOR OPERATING A MEMBRANE ELECTROCHEMICAL GENERATOR



(57) Abstract: A membrane fuel cell stack characterised by a stable operation under non-humidified air feed at the cathode inlet with a stoichiometric factor higher than 1 and near ambient pressure, even at high current density. This result is obtained by means of an air feed conditioning device comprising a fan or little compressor, a heat exchanger directed to cool the compressed air and an expander allowing to cool the air while recovering part of the energy consumed by the fan.



For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 H01M8/04

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

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Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, COMPENDEX

C. DOCUMENTS CONSIDERED TO BE RELEVANT

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☒ Patent family members are listed in annex.

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Information on patent family members

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